

Charter of the Open Science Grid

Open Science Grid Governance Technical Group

Increasing scale and complexity of 21st century science has led to larger and more global collaborations involving massive data sets. This requires efficient utilization of widely distributed computational resources and effective global communication. Science communities and other organizations can join the Open Science Grid with the expectation that they can benefit from the infrastructure and also contribute resources and effort as part of a coordinated project.

The vision of the Open Science Grid Consortium (OSG) is one of a persistent national grid infrastructure for large scale US science: the Open Science Grid.

The Open Science Grid Consortium will provide a set of goals and an overall infrastructure within which the Grid resources of the different members can be operated coherently and compatibly. The Open Science Grid Consortium will require a dedicated staff and other resources, which could be paid for by member contributions or eventually by direct funding.

The Open Science Grid Consortium is a consortium of scientific collaborations, scientific computing centers and existing and new grid research and deployment projects, involving both computational and application scientists, working together to provide and support the set of facilities, services and infrastructure needed.

A structure of management and coordination bodies will oversee and coordinate the work of the Open Science Grid Consortium.

The Open Science Grid will be open to all sciences that have a need for distributed large scale computing and data management, and can bring resources to be federated.

An engineered production quality grid infrastructure will be built and operated in the US, and extended internationally through participation in the global grid infrastructure for science. To meet the data analysis needs of the scientific communities the grid will support managed access to large computing and storage resources (up to tens of thousands of CPUs and 100s of petabytes).

The Open Science Grid will create opportunities for educators and students to participate in building and exploiting this grid infrastructure and opportunities for developing and training a scientific and technical workforce. It has potential to transform the integration of education and research at all levels.

The Open Science Grid Consortium will ensure that the U.S. plays a leading role in defining and operating the global grid infrastructure needed for large-scale collaborative and international scientific research.

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Draft V0.3 December 20th, 2004, Fix spelling. Remove last 2 sentences as per John Huths Oct 26th email

